

Pilkington K Glass™

Now with a soft coat option





Pilkington K Glass™ S For the ultimate in energy efficient glazing

For over two decades Pilkington **K Glass™** has been the UK's best known energy efficient glass, in both trade and consumer markets. Now with the launch of Pilkington **K Glass™ S**, our new soft coat option, the range offers more choice than ever.

Pilkington **K Glass™ S** is a high performance, low-emissivity soft coated product which offers excellent thermal insulation when incorporated within an Insulating Glass Unit (IGU).




Pilkington **K Glass™ S** has a highly neutral appearance with optimal solar heat gain, thermal insulation and light transmission to provide the highest Window Energy Rating (WER) performance.

Pilkington **K Glass™ S** is a single stock, soft coated glass which can be used in annealed form or toughened, resulting in a product with the same thermal performance and neutral appearance. Once fabricated into an IGU, it can be used in windows in all types of glazing applications in new houses, conservatories and in replacement windows for existing homes.

- An alternative to the original hard coated Pilkington **K Glass™**, which is the UK's best-known and most recognised low-e glass brand

- When combined with Pilkington **Optiwhite™ E** in Pilkington **energiKare™** IGUs, it can easily achieve up to A-rated windows, and beyond, in all frame materials
- Helps windows exceed the Part L 2010 regulations and will be the solution for changes expected in 2013 and 2016
- Enables householders to reduce energy usage and save money on heating bills
- Helps towards achieving the Government's targets for reducing CO₂ emissions from homes so can be considered environmentally friendly
- Helps to reduce drafts near windows to create a more useful space in rooms
- Excellent light transmission which helps to reduce the need for artificial lighting
- Suitable for use in PVCu, timber and aluminium profiles in both new and replacement windows
- Available in annealed form and can be toughened or laminated for use in areas which require safety glazing
- Benefits from the reputation, heritage and consumer awareness of the Pilkington brand

Pilkington K Glass™ S – Comparative Performance in Glazing

Outer Pane (4 mm)	Cavity (mm) Gas fill	Inner Pane (4 mm)	Light Transmittance (%)	Outside Reflectance (%)	Centre Pane U-value (W/m ² K)	Total Solar Heat Transmittance (g value) %	Indicative WER Performance Band*		Pilkington energiKare™ unit
							Aluminium Spacer Bar	Warm Edge Spacer Bar	
Pilkington Optiwhite™ E	16 mm Argon	Pilkington K Glass™	76	18	1.5	78	C	A	Y 
Pilkington Optiwhite™ E	16 mm Argon	Pilkington K Glass™ OW	78	18	1.5	79	C/B	A	Y 
NEW Pilkington Optifloat™	16 mm Argon	Pilkington K Glass™ S	80	12	1.2	71	B/A	A	N
NEW Pilkington Optiwhite™ E	16 mm Argon	Pilkington K Glass™ S	81	12	1.2	75	A	A	Y 

Above determined in accordance with EN410 and EN673. Assuming 90% argon gas fill.

*Varies with frame performance.

Pilkington **K Glass™ S** is available in the following standard sizes and thicknesses;

Thickness	Maximum Sizes	Thickness	Maximum Sizes
4 mm	3210 x 2250 mm	6 mm	3210 x 2550 mm
4 mm	3210 x 2550 mm	6 mm	6000 x 3210 mm
4 mm	6000 x 3210 mm	6.4 mm*	3210 x 2550 mm

*Pilkington **Optilam K Glass™ S**

Manufacturing information

- Pilkington **K Glass™ S** is a single stock, soft coated glass which can be used as both an annealed and a toughened glass as it retains its excellent thermal performance and neutral appearance properties after toughening
- As a single stock product, Pilkington **K Glass™ S** takes up less storage space in a warehouse helping streamline stock control, production planning and reducing inventory costs
- Whilst it is essential to follow the guidelines for handling a soft coat glass such as Pilkington **K Glass™ S**, it has been found to be more robust than other similar products reducing in-process losses and product replacements
- Toughening Pilkington **K Glass™ S** has been found to require both lower temperatures and shorter cycle times than other similar products, resulting in less energy usage and lower processing costs and faster throughput.
- It has a consistently low haze level which enhances its neutral performance

For details of how to handle and process Pilkington **K Glass™ S** please see our separate Handling & Processing Guidelines.

Thermal efficiency

The Window Energy Rating (WER) is the Government-backed method of assessing and ranking the energy efficiency of a complete window. Taking into account its U-value, solar gain and air infiltration, the scheme allows easy comparison of the energy efficiency of competing windows with A being the best. The energy performance of an IGU or the glazing itself can be improved in a series of steps to gradually improve the WER band achieved; firstly argon filling improves U-value, then low iron glass such as Pilkington **Optiwhite™ E** as the outer pane improves solar gain, and the addition of a warm edge spacer bar improves the U-value of the whole window. Currently Building Regulations demand a minimum of Band C but we expect this will tighten with changes to Part L in 2013 and then again in 2016.



Pilkington K Glass™



energy-efficient glass

This publication provides only a general description of the product. Further, more detailed information may be obtained from your local Pilkington Building Products supplier. It is the responsibility of the user to ensure that the use of this product is appropriate for any particular application and that such use complies with all relevant legislation, standards, code of practice and other requirements. To the fullest extent permitted by applicable laws, Nippon Sheet Glass Co. Ltd. and its subsidiary companies disclaim all liability for any error in or omission from this publication and for all consequences of relying on it. Pilkington, “K Glass”, “Optifloat” and “Optiwhite” are trademarks of Nippon Sheet Glass Co. Ltd.

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CE marking confirms that a product complies with its relevant harmonised European Norm.
The CE marking label for each product, including declared values, can be found at www.pilkington.com/CE



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